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We recycle. You can, too! Share Xplor with friends.

# ON THE COVER



Hercules Beetle by Noppadol Paothong

### 6 Large and in Charge Missouri's giants rule the outdoors.

## 10 Little Owl, Big Attitude The only small thing about the eastern screech-owl is its size.

### DEPARTMENTS

- 1 What Is It?
- 2 You Discover
- 4 Predator vs. Prey
- 5 How To
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- 16 Xplor More

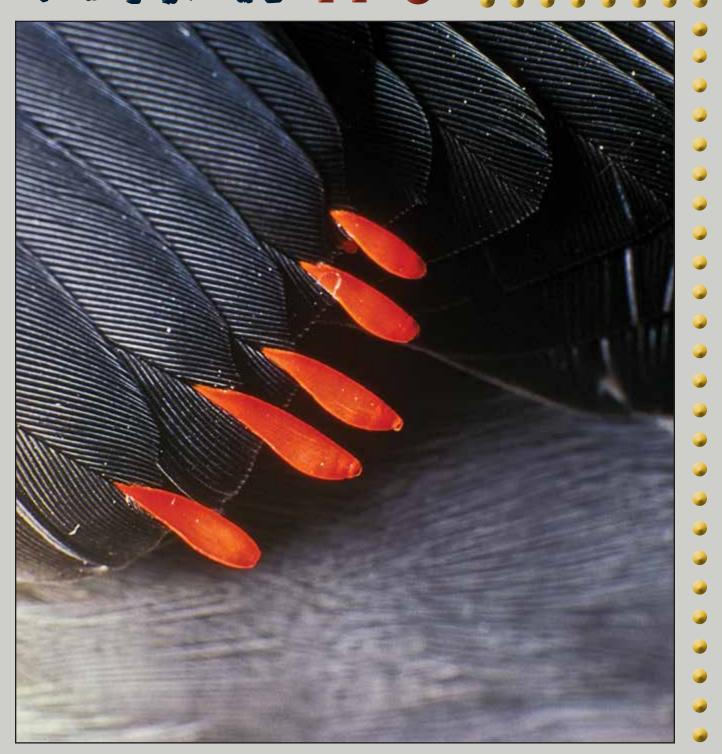


ON THE WEB

Visit *xplormo.org* for cool videos, sounds, photos, fun facts, and more!

### DON'T KNOW?

Jump to the back cover to find out.



- 1 It looks like my wings were dipped in wax.
- 2 Upon my face I wear a mask.

- 3 I'm often in gangs but commit no crime.
- **4** I eat nothing but fruit for months at a time.



Scout for Spring's First SPROUTS

Spring beauty is Missouri's most widespread spring flower. You might have to look hard to find this beauty, though. It's only about

5 inches tall. You can find it blooming

from February through May nearly anywhere the soil is moist — fields, woods, even lawns. Native Americans ate the roots of spring beauty. Its leaves are also edible, and have a fresh,

tangy taste. Just be sure to check with an adult before tasting spring beauty or any wild plant.



If you want to enjoy bluebirds, Missouri's state bird, all summer long, build them a birdhouse they'll be proud to call home. Download easy-to-build plans at xplormo.org/node/2937. Bluebirds begin nesting in early March so be sure to set it up by late February.

SPRING SAFLUTTER

also

ling"

find them grouped up near puddles, "puddling" up moisture and minerals with their feeding tube, or proboscis. Butterflies can even add a few drops of water from their own bodies to dissolve food so it's easier to suck up.

# Don't miss the chance to Discover Nature at

Outsmart your feathered foe with TURKEY HUNTING BASICS.

Andy Dalton Shooting Range and Outdoor Education Center, Ash Grove; March 29, 8:30 a.m.-4:30 p.m. Register at 417-742-4361.

Score your big buck's rack at ANTLER SCORING.

Cape Girardeau Conservation Nature Center; February 22, 9 a.m.-noon. For info, call 573-290-5218. Any rack can be scored.

Eagle-eye an eagle fly-by at Schell-Osage

EAGLE DAYS

Schell City; February 8, 9 a.m.-4 p.m. 417-876-5226.

Bald eagle

# ROCK OUT to Nature's Wildest Drummer

Keep your ears peeled for the early spring sounds of pileated woodpeckers drumming on wood. Rat-a-tat-tat! Sometimes they peck away for hours on tin roofs and even metal church steeples. All that racket establishes their territories and helps attract mates. Between the drumming, the fiery red mohawk, and a loud, rapid-fire call that sounds like crazed laughter, the pileated woodpecker truly is one of nature's rock stars. Listen in at mdc.mo.gov/node/981.

# Snag a Prehistoric PADDLEFISH

Paddlefish, also known as spoonbill, are unlike anything else you'll see on the end of your fishing line. Like a small shark, the paddlefish lacks scales and bones. Like a baleen whale, it filters its dinner from the water — and no other fish on our continent has a paddle for a snout! Once you reel one in, you'll be hooked for life — fishing for one of our oldest and most unusual species. Missouri's paddlefish snagging season kicks off March 15.

Watch a 2-minute video at mdc.mo.gov/ node/15884.



TRAVEL TO GRAVEL

and other interesting keepers. You might find a deer antler, a snake backbone, petrified wood, several mussel shells, and an

arrowhead.

these fun events.

### Beat the rush and become MISSOURI HUNTER **EDUCATION CERTIFIED.**

Improve your hunting skills and knowledge with a solid foundation in hunting safety and ethics. Learn more at mdc.mo.gov/node/3722.

Learn how to safely handle a rifle

at YOUTH .22-CALIBER RIFLE CLINIC. Jay Henges

Shooting Range, High Ridge; February 22, 8-9:30 a.m. Register at 636-938-9548.

Ages 9-15.





Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at xplormo.org/node/2616.



eing able to find north without a compass is a handy skill to master. Here's how to do it during the day and at night.

### DURING THE DAY...

1

Find a sunny, flat, brush-free spot on the ground. Push a stick into the soil. Make sure the stick points straight up. Mark the tip of the stick's shadow with a rock.

Find North Without a Compass

Wait 30 minutes. The stick's shadow will move. Mark the new tip of the stick's shadow with another rock.

Draw a straight line between the two rocks. This line runs east and west.

EAST

With the stick at your back, put your left heel directly in front of the first rock. Put your right heel directly in front of the second rock. You are now facing north. East is on your right, west is on your left, and south is behind you.

WEST NORTH
SOUTH EAST

### . AND AT NIGHT

Find the Big Dipper. It's a group of seven stars arranged in the shape of a soup ladle. Depending on the time and date, the Big Dipper may be tipped sideways or upside down.

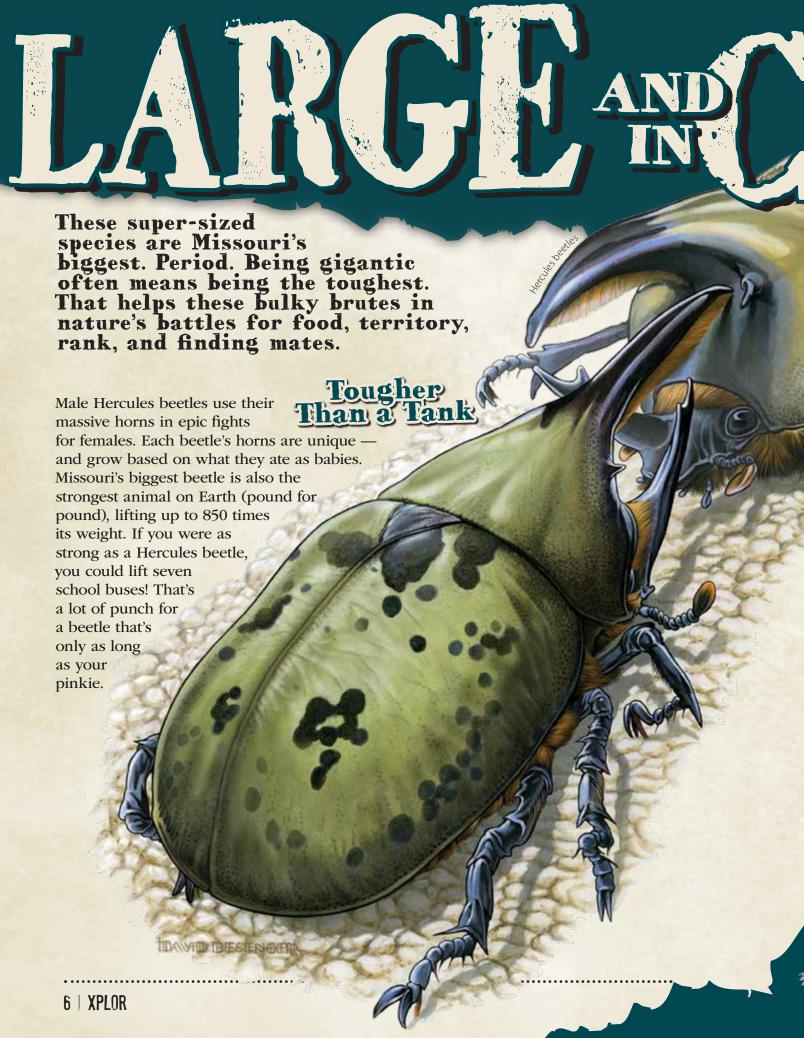
Little Dipper Locate the stars that form the front rim of the Dipper's cup. Imagine a line from the bottom star to the top one. Extend the line straight out until you reach the Little Dipper. The bright star at the tip of the Little Dipper's handle is the North Star.

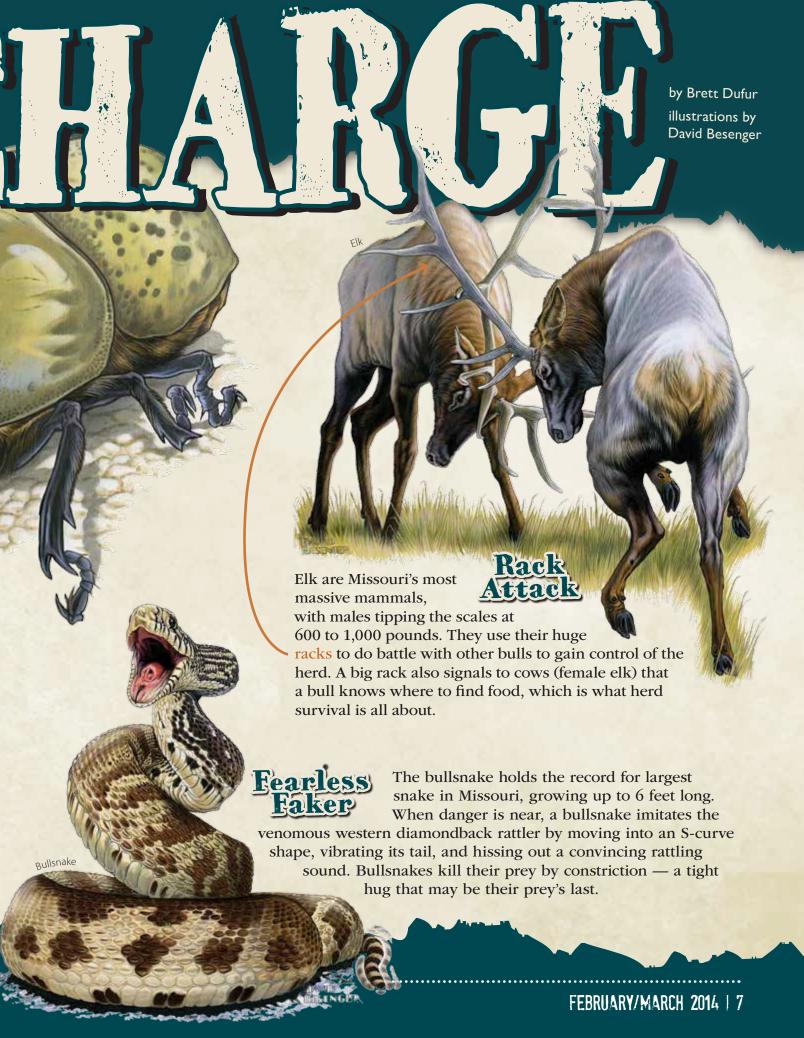
Big Diþþer

Trace a line from the North Star straight down to a landmark on the ground. The landmark will be directly north of where you're standing.

NORTH 🕹

North





# Super-Sized Salamander

Beware! If you're a crayfish chillin' in an Ozark stream, stay away from the shadows. The last thing you'll see before disappearing into the cavernous mouth of Missouri's largest salamander is a pair of beady eyes lunging from under a big rock. Chomp! A hellbender's gullet is gigantic — it can swallow crayfish almost half



The biggest bucking bronco of the water world, alligator gar can reach 8 feet long and a whopping 300 pounds. The alligator gar is wrapped in armor-like scales that are so tough Native Americans used them as arrowheads. This toothy titanic has roughly 40 teeth, with a double row on its upper jaw. A gar holds its prey until it's almost lifeless. Then, in a sudden blast, the gar swims in fast, tight circles to position and swallow its lunch whole.

8 | XPLOR





# by Matt Seek

Screech-owls are Missouri's secondsmallest bird of prey. Only northern saw-whet owls are smaller. This screech-owl is

than life size.

In Missouri, screech-owls come in three colors: gray, reddish-orange, and brown.









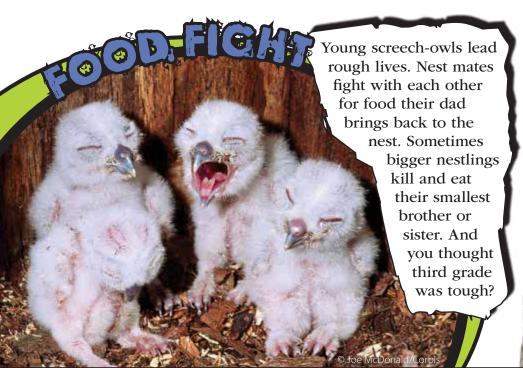


## OWL TALK

Screech-owls have loud voices and lots to say. They trill, whinny, bark, chuckle, peep, hiss, hoot, and — when they're startled or angry — screech, of course. Owl couples trill back and forth to each other when they're courting and while they're searching for a place to nest. If you hear this after-dark duet, it's easy to know *booo's* who: Males, though smaller, have deeper voices than females.

# NOW YOU SEE ME NOW

After a hard night of hunting, a screech-owl just wants some shut-eye. To hide from hungry hawks and fussy songbirds, the sleepy owl closes its big yellow eyes and pretends to be a branch. The camouflage pattern of its feathers makes the owl all but invisible against a barky background. Some screech-owls take their disappearing act a feather further and raise a wing to hide their beaks.





# TIPS FOR FINDING SCREECH-OWLS

Look for fussy birds. Songbirds swoop and squawk at owls to alert their feathered friends of the predator's whereabouts and to teach young birds that owls are dangerous.



Search the base of trees for owl pellets and "whitewash" (owl poop). If you find either, look up. An owl may be sleeping up there.

Listen for screech-owl calls at night. Screech-owls are especially noisy during full moons and before stormy weather.

Inspect tree cavities on cold, sunny days. You may find a screech-owl at the entrance soaking up sun.



YOUR GUIDE TO ALL THE INJUSUAL UKIQUE. AND UNBELIEVABLE
STUFF THAT GOES ON IN NATURE

DOUBLE-CRESTED CORMORANTS produce less oil than

most other water birds. Without oil to coat their feathers, cormorants get waterlogged easily and must spend lots of time drying their feathers in the sun.

You've heard of couch potatoes, but how about pouch potatoes? Minutes after they're born, baby OPOSSUMS crawl into their mother's pouch — and stay there for the next 70 days!



usually grab fish between the top and bottom parts of their beaks. But sometimes the leggy birds stab fish with their knife-shaped beaks. Fish kabobs, anyone?

LEAST SHREWS are tiny animals with enormous appetites. The 3-inch predators eat nearly their weight in insects,

> worms, and snails every day. An average-sized 4th grader would need to snarf down 200 apples daily to keep up.

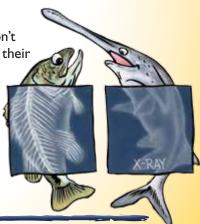
### GREAT HORNED OWLS

don't give a hoot about cold weather. The hardy hooters start nesting in January, earlier than any other bird in Missouri. Their eggs can survive temperatures of 10 degrees below zero.



No bones about it. PANNI FFISH don't

have a single bone in their fishy bodies. Instead, their skeletons are made of cartilage, the same sort-ofbendy, sort-of-stiff tissue that's found in your ears and the tip of your nose.





don't really fly, but, wow, can they glide! With a tall-enough tree to launch from, these squirrelly skydivers can glide 190 feet — about as far as five school buses parked end to end.

# XPLIR MIS

# Whose View?

NIMALS MAKE
THEIR HOMES
IN ALL SORTS
OF PLACES. CAN
YOU MATCH EACH
CRITTER TO THE
VIEW IT SEES
WHEN IT LOOKS
OUT ITS "BEDROOM
WINDOW?"







Pileated woodpecker:\_\_\_\_\_





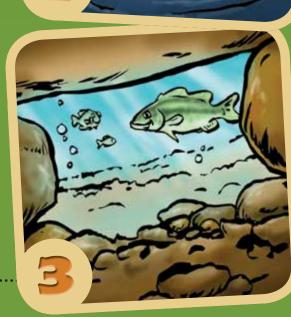




Three-toed box turtle:\_\_\_\_





















Golden crayfish: 3; Muskrac: 5; Gray squirrel: 6; Little brown bat: 2; Pileated woodpecker: 4; Eastern mole: 7; American robin: 8; Three-toed box turtle: 9; Eastern chipmunk: 1

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Shawn Cunningham

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FREE TO MISSOURI HOUSEHOLDS

# WHAT IS 7 FROM PAGE 1



Cedar waxwings are named for the waxy red nubs on their wing feathers. Biologists aren't sure what the nubs are for, but they may help attract mates. In winter, waxwings form noisy flocks and feast on cedar berries and wild fruits. The birds can survive on berries alone for more than two months, but their fondness for fruit sometimes gets them in trouble. Waxwings occasionally become drunk from eating overripe berries.